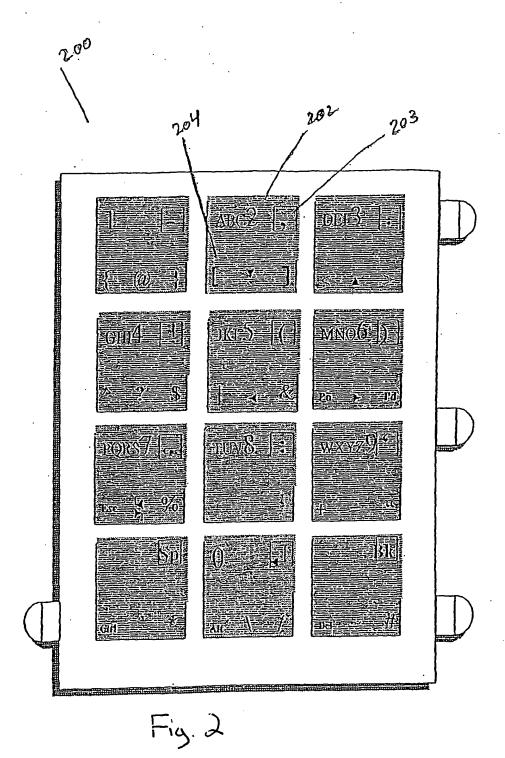
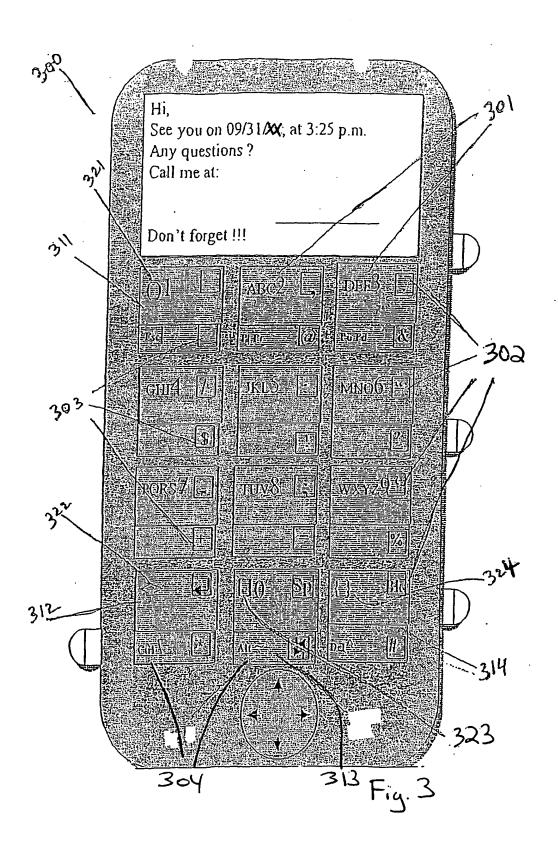
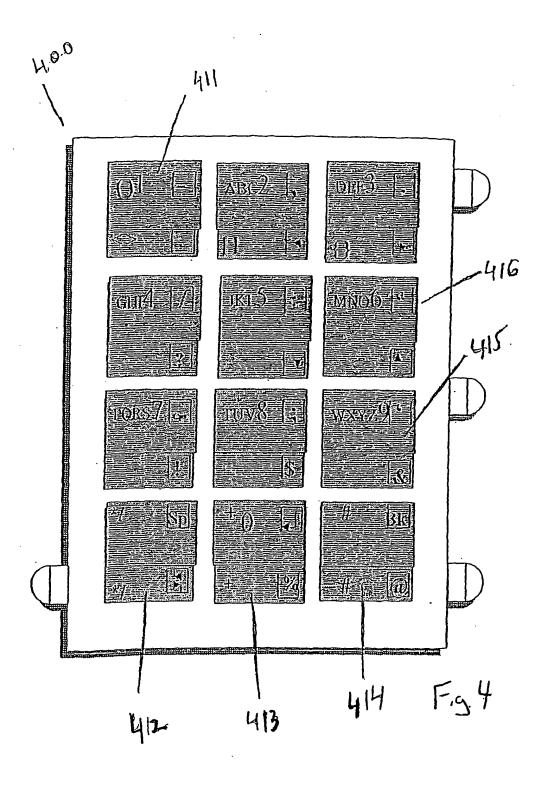


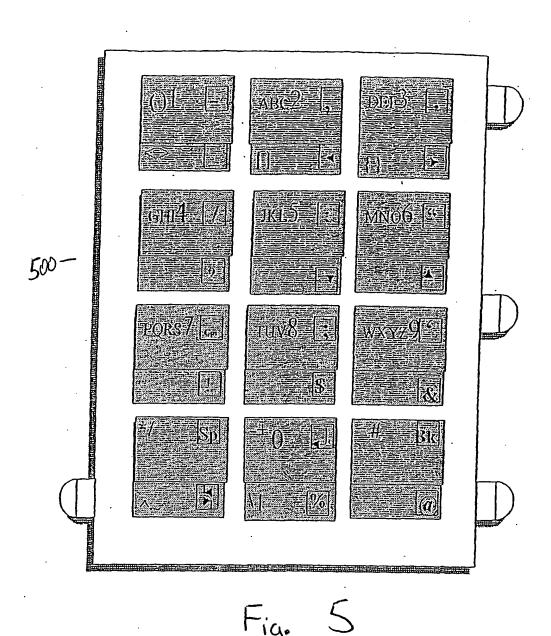
Fig. 1



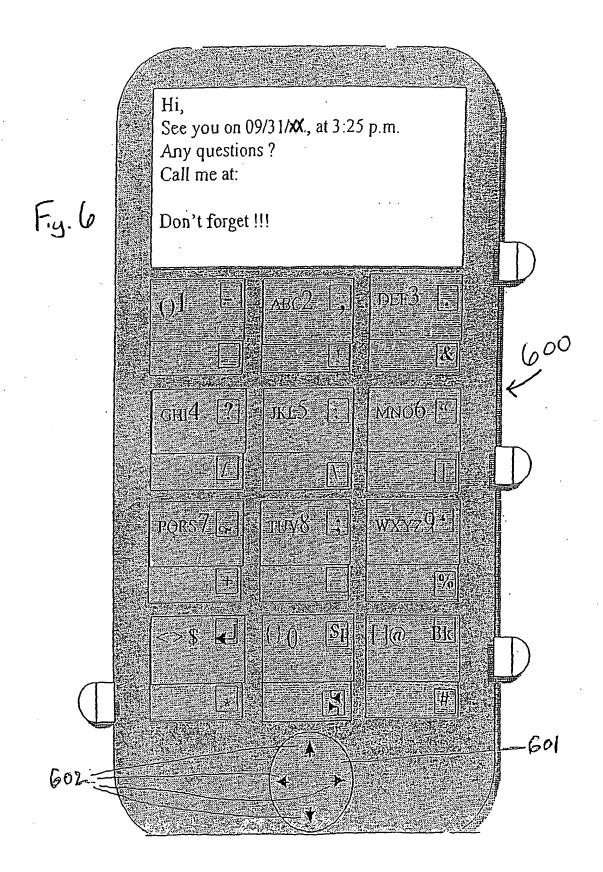
2/81

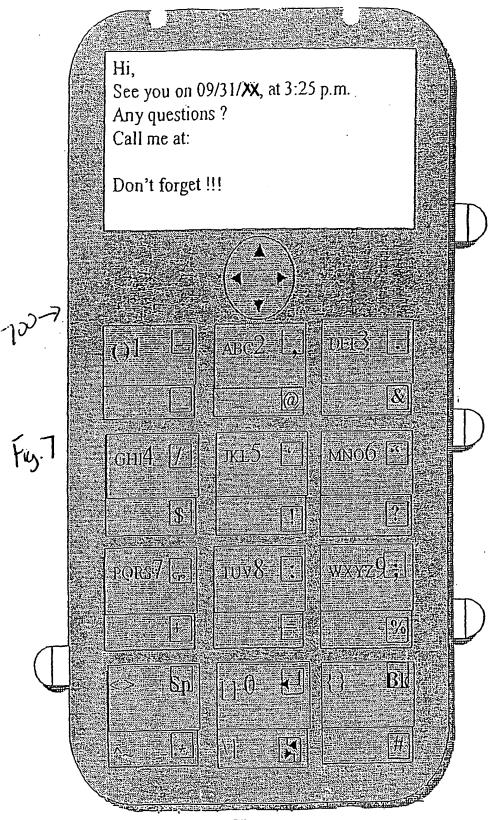


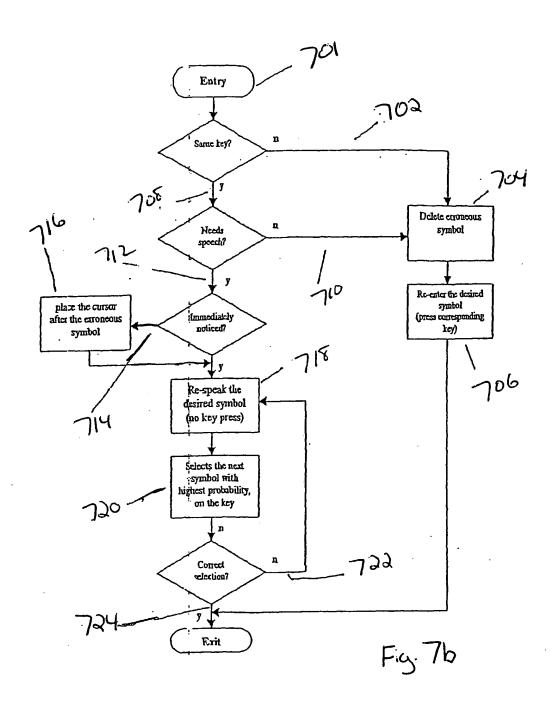


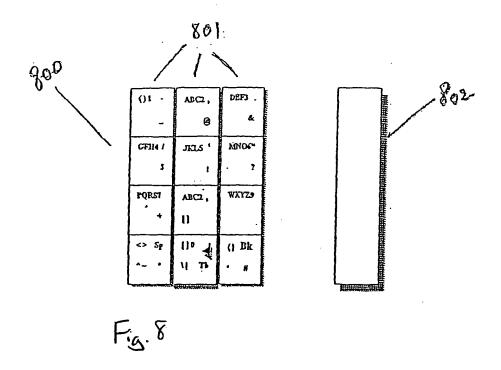


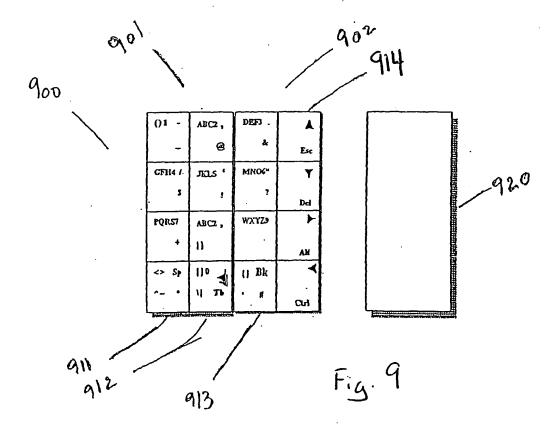
5/81

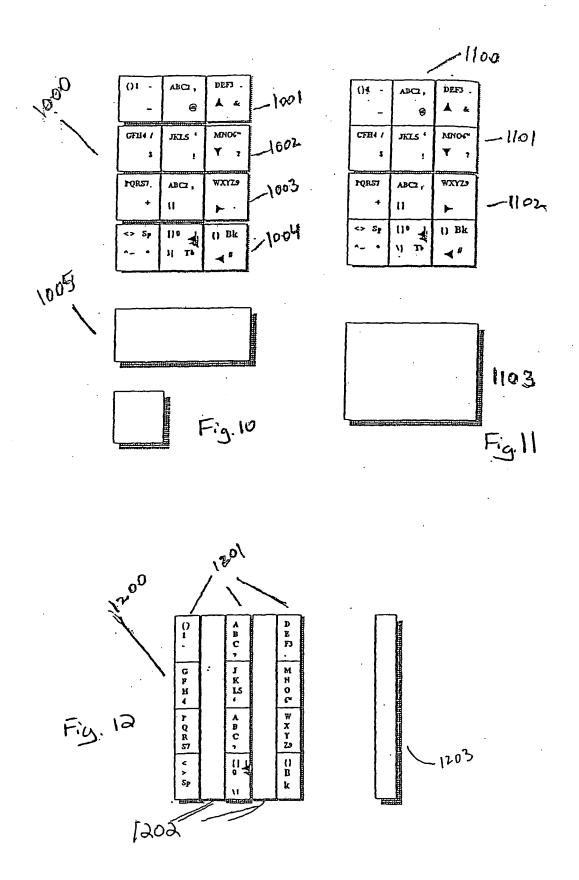












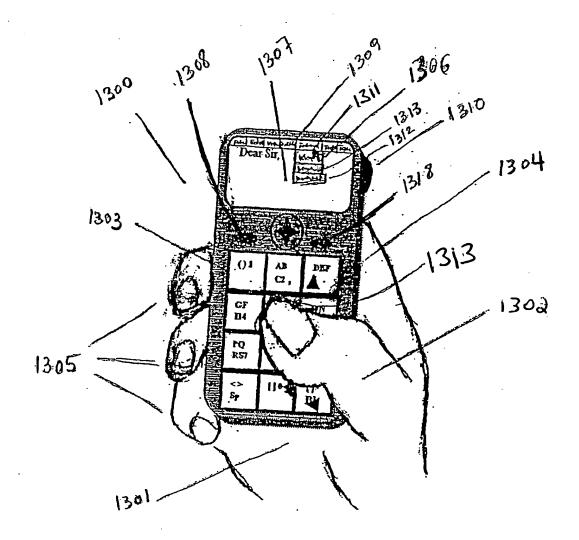
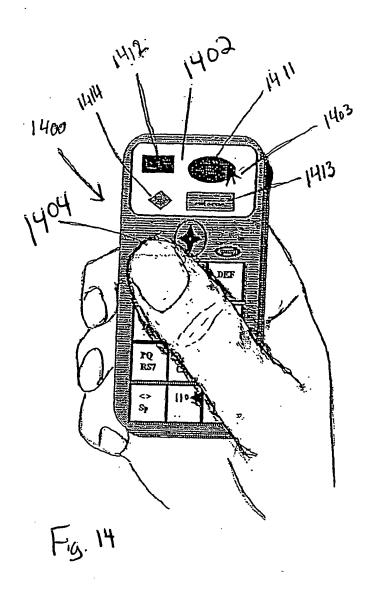
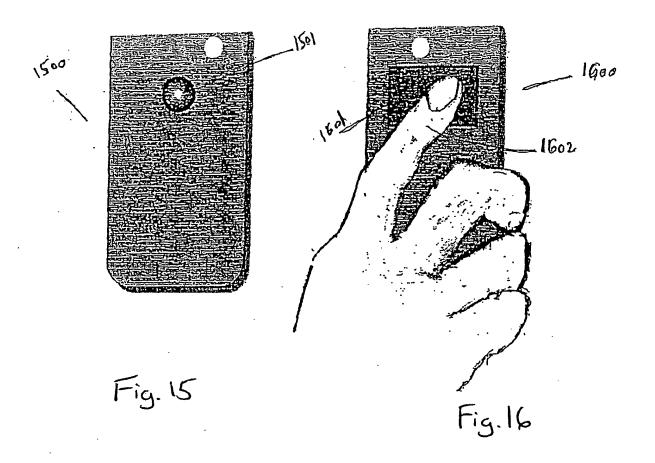
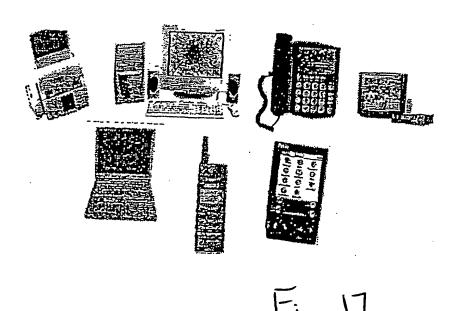
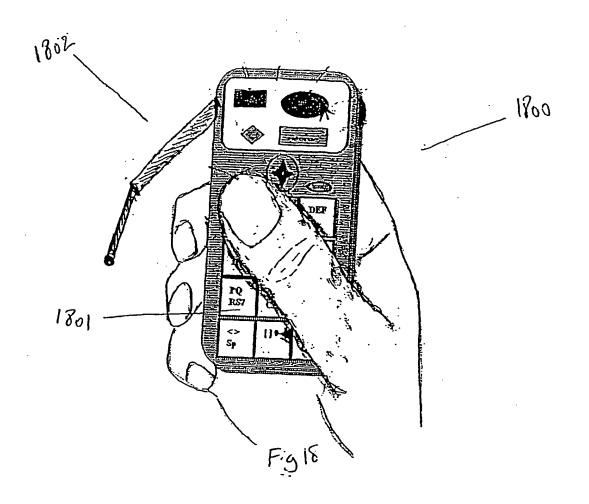


Fig. 13









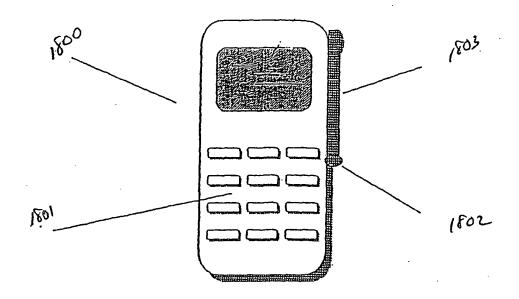
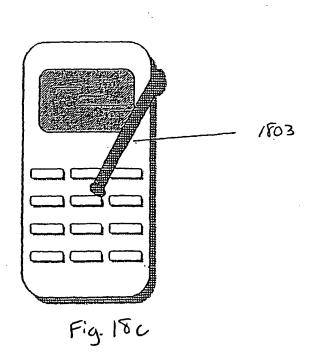


Fig ITB



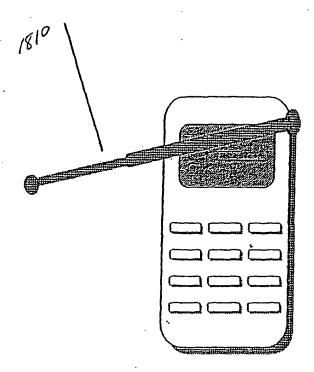
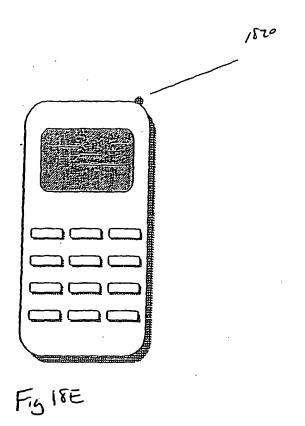
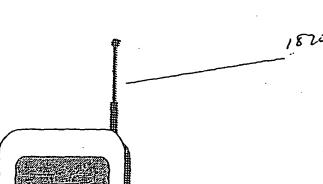
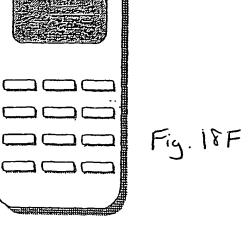
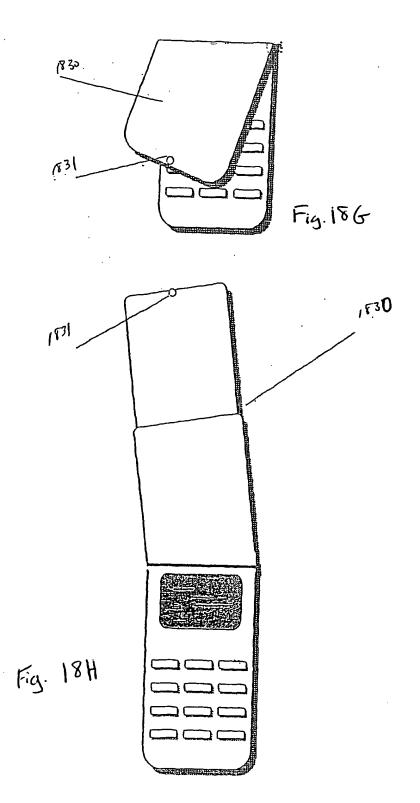


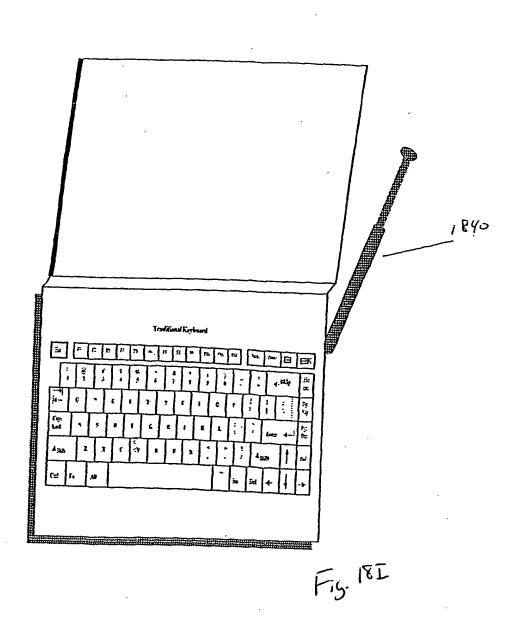
Fig 18D

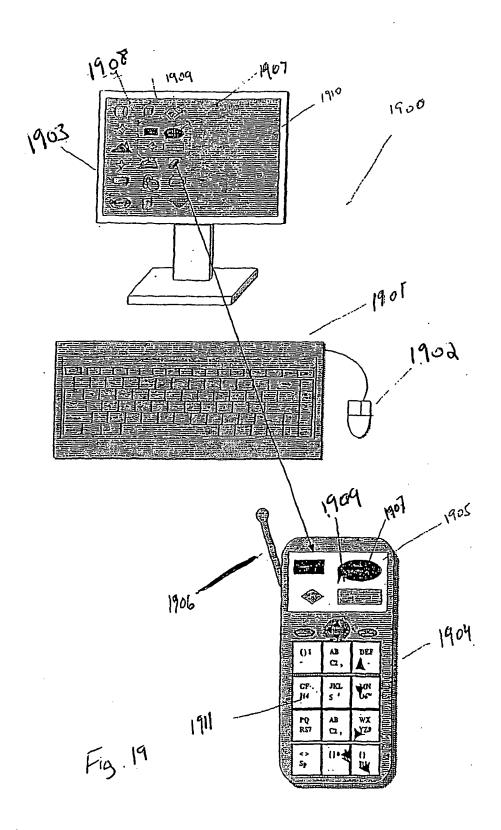


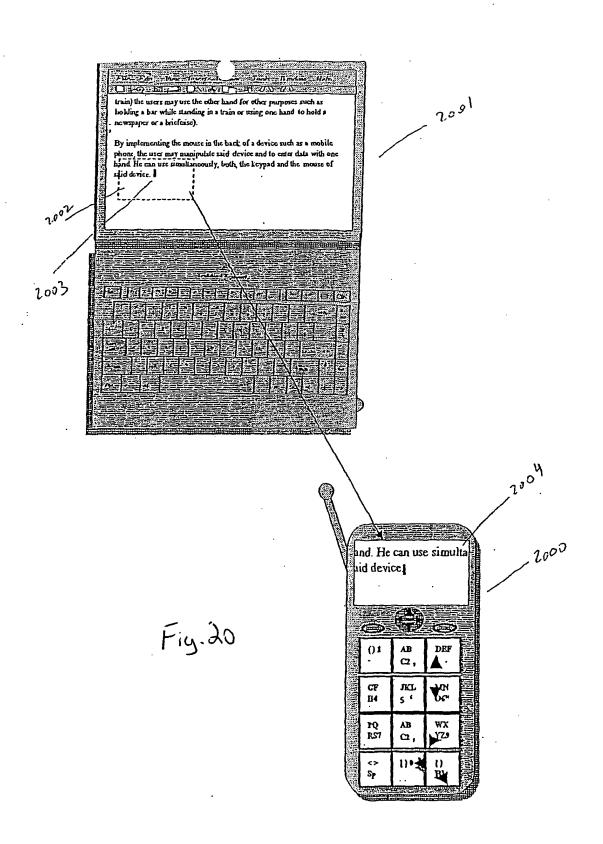


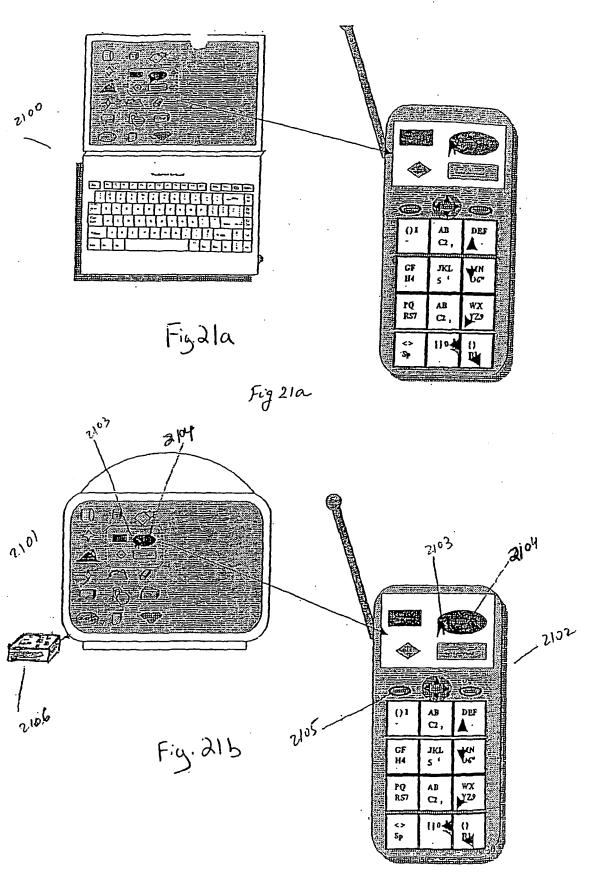


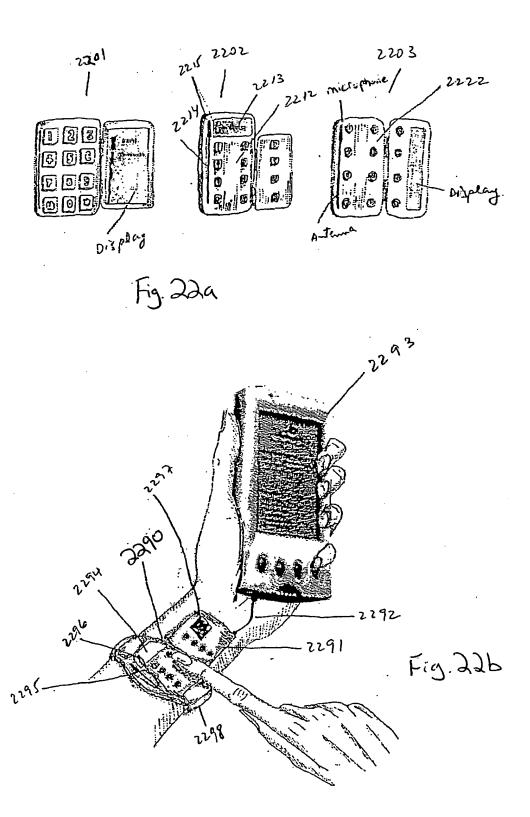


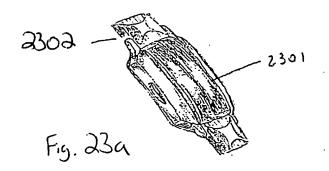


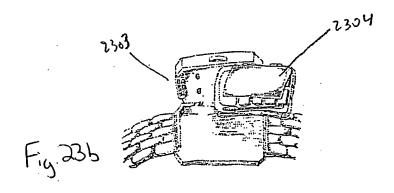












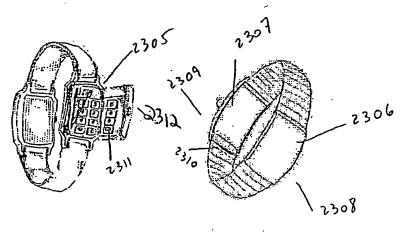


Fig. 23c

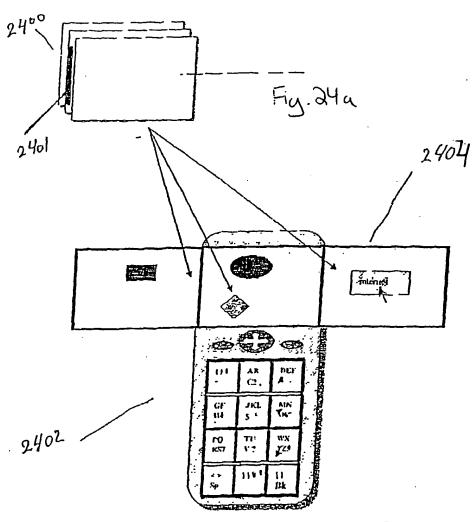
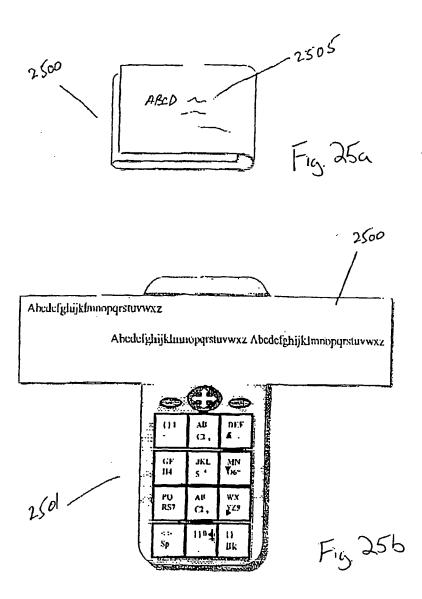


Fig. 246



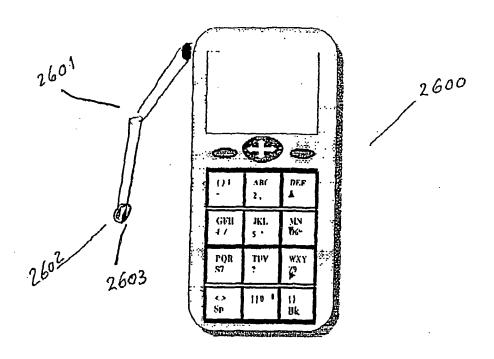
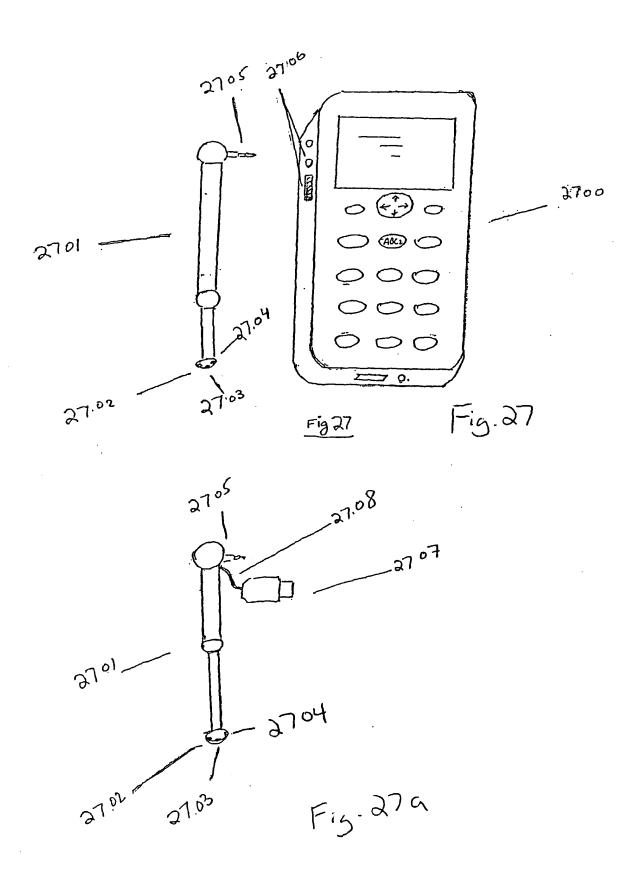
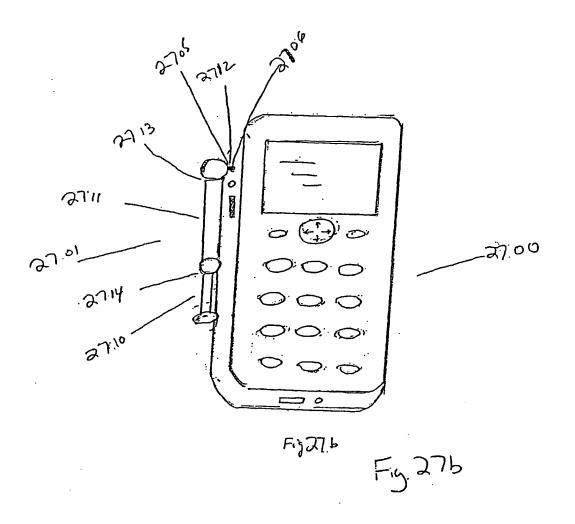
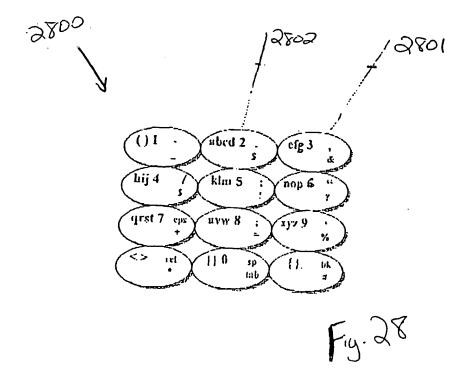
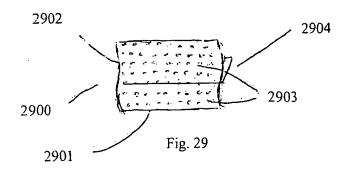


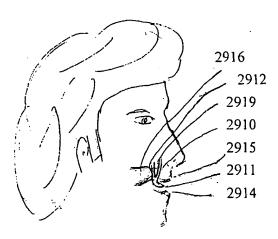
Fig. 26











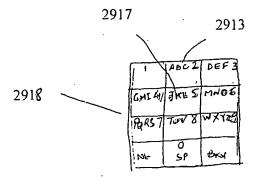
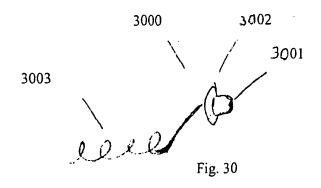
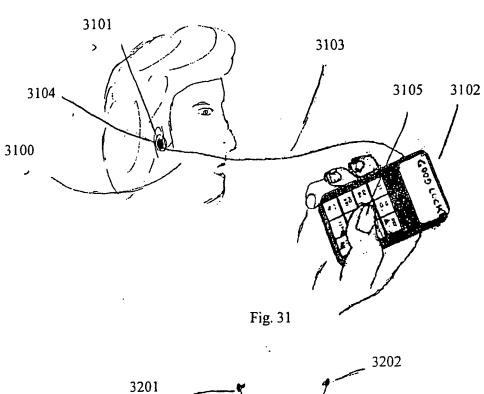
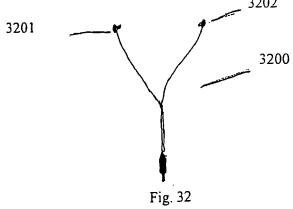
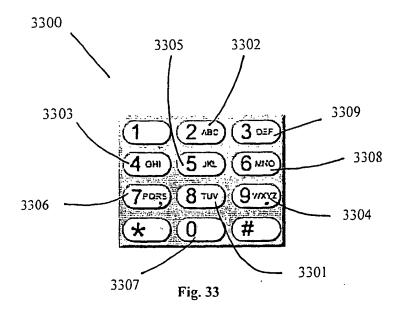


Fig. 29a









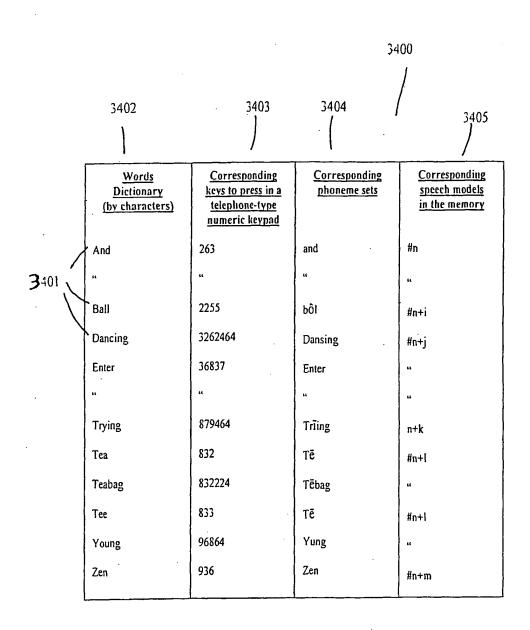
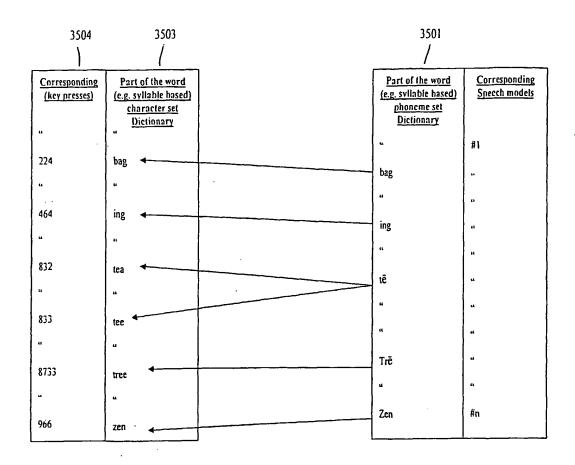
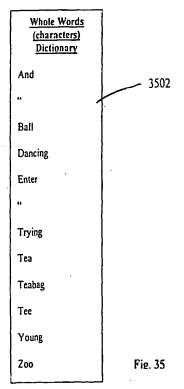


Fig. 34





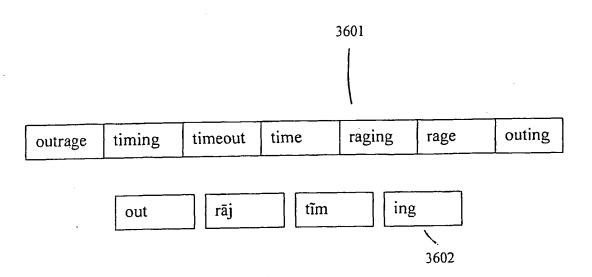


Fig. 36

.A	В	С
Speech/phonemes	Characters sets having	words having portions (e.g. syllables)
at the beginning of	pronunciation at least	with starting:
a syllable in a word	substantially similar	phoneme-sets of A or
	to the phonemes set of A	characters sets of B
ta	ta,	tap, tango
tā	ta, tai,	take, tailor
tā	tas,	taste
tô	ta, tau	talk, taupe
top	top	Тор
te	te	tent
ti	ti	tilt
tip	tip	tippet
tī	ti, tie, ty	re-tire ("ti" in the beginning of the
		middle syllable), tiebreak, type
tē	t, tee, tea, ty	t, teeth, team, security
tōō	to, too, two	to, tooth, two
trī	tri, try	tried, re-try
thi	thi, thir, thirst	thin, thirst, thirst
thrō	thro	throw
ing	in	trying

Fig. 37

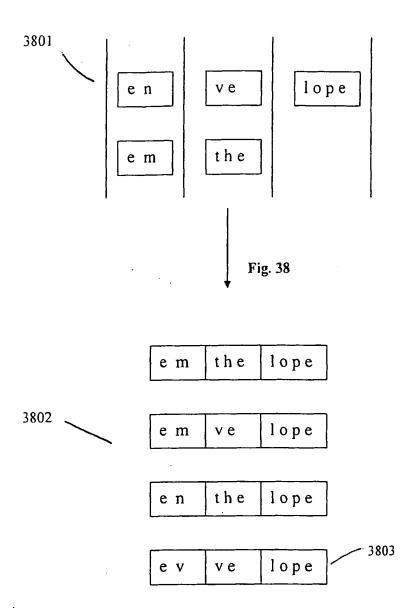


Fig. 39

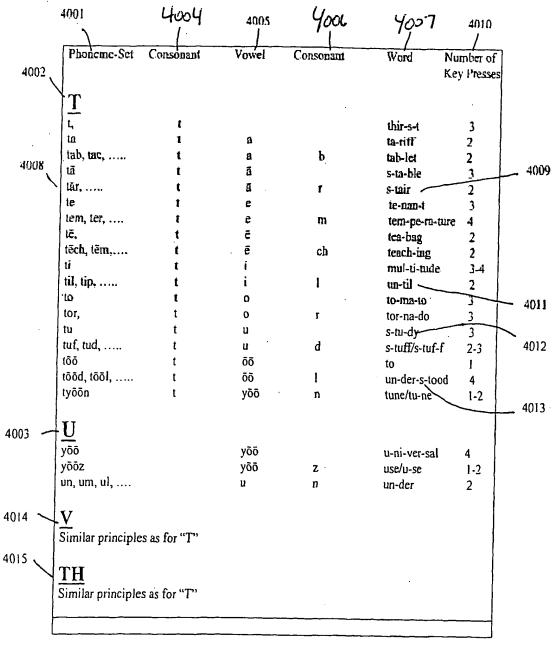


Fig. 40

Phoneme-Set	Consonant	Vowel	Word	Number of Key Pressees
Г			•	
$\underline{\mathbf{T}}$				
t	t		thi-r-s-t	4
ta	t	a	ta-ri-f-f	4
tā	t	ã	s-ta-b-le	4
te	t	е	te-na-n-t	4
tē,	t	ē	tea-ba-g	3
ti	t	i	mu-l-ti-tu-de	5
.0	t	0	to-ma-to	3
น	t	u	s-tu-dy	3
ōō	t	ōō	to	1
yōō	t	yōō .	tu-ne	2
U	vowei	consonant		
ōōz	yōō		u-se	2
n, um, ul,	u	n	un-de-r	2 3
<u> </u>				
	F. STP			
imilar principle	s as for "I"			
Ή				
milar principle	n na fau (IT)			
פומניזמות זאוונוו	s as for "I"			

Fig. 41

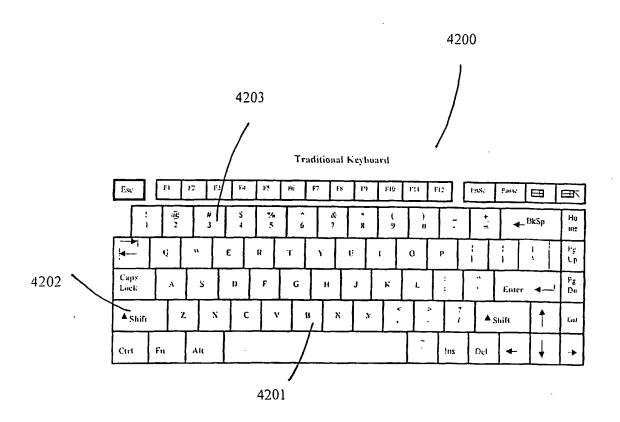


Fig. 42

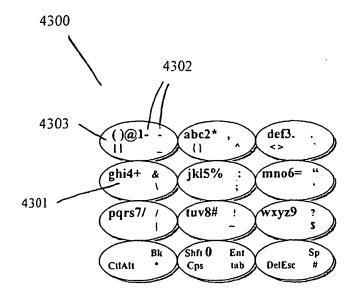


Fig. 43

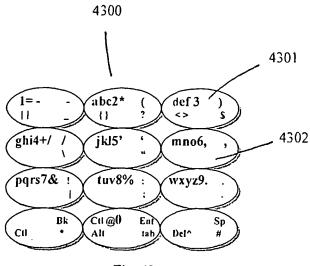


Fig. 43a

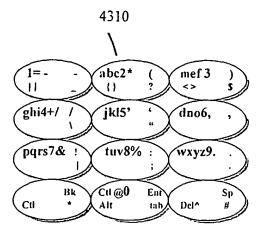


Fig. 43b

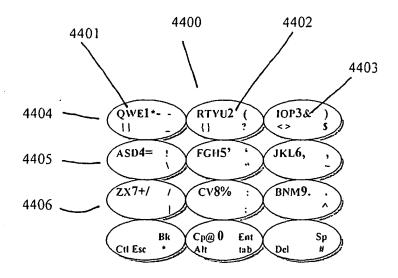


Fig. 44a

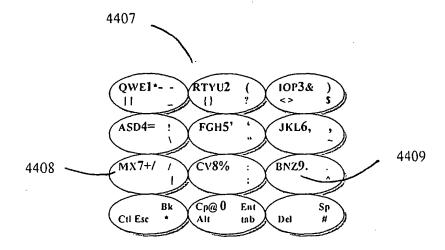


Fig. 44b

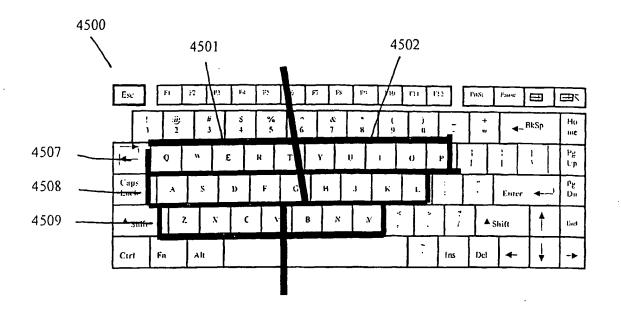


Fig. 45

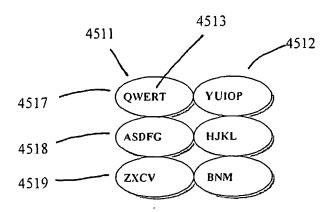


Fig. 45a

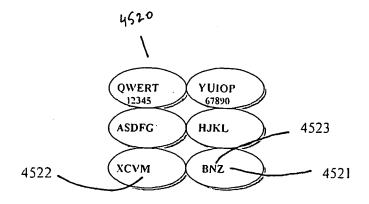
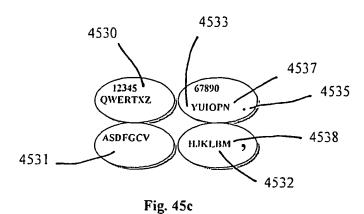


Fig. 45b



4541 QWERTP YUIOSD HJKLBNZ 12345 67890

Fig. 45d

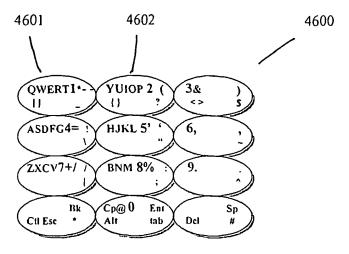


Fig. 46a

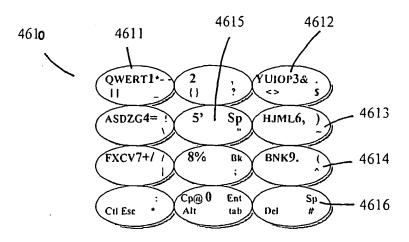


Fig. 46b

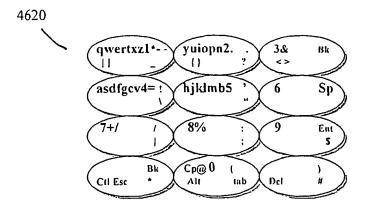
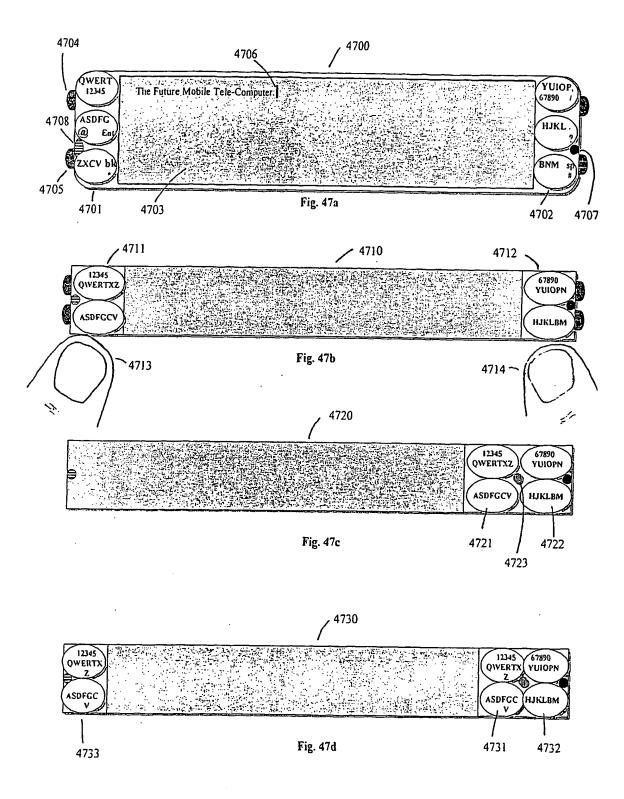


Fig. 46c



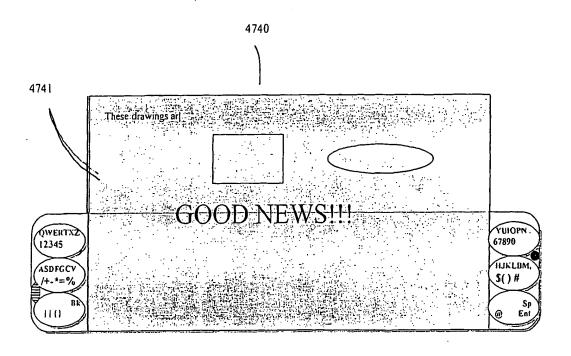
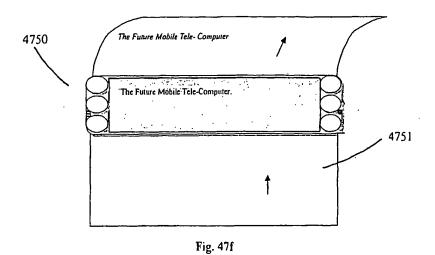
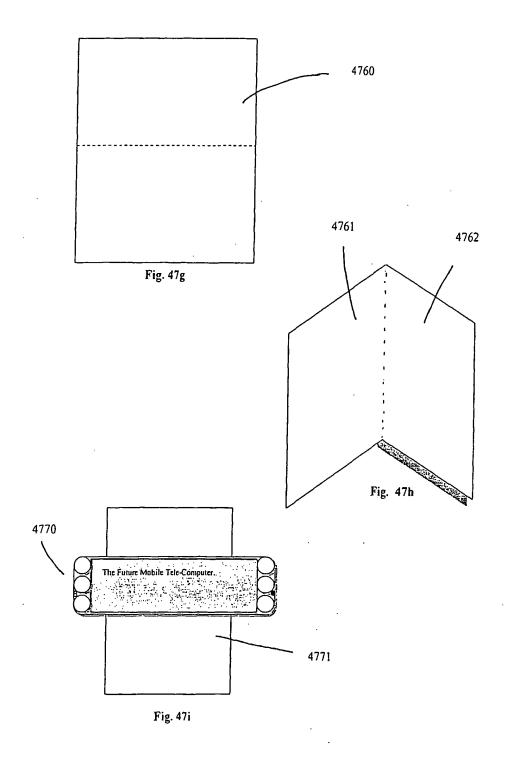
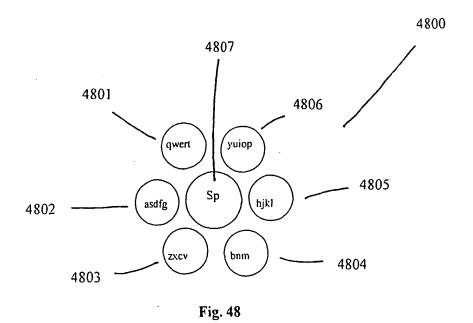
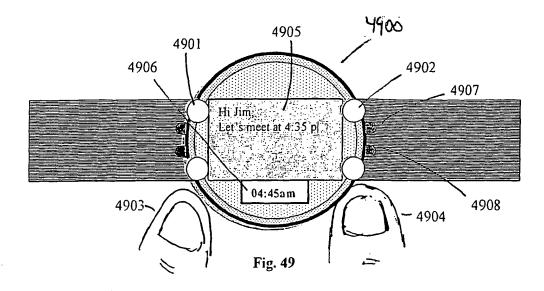


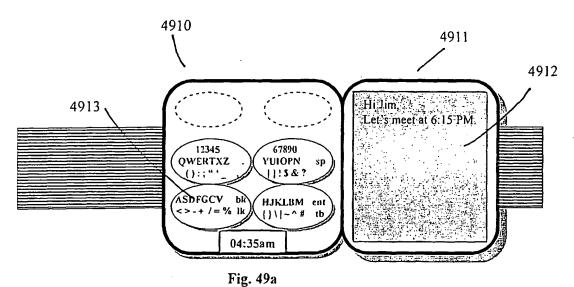
Fig. 47e











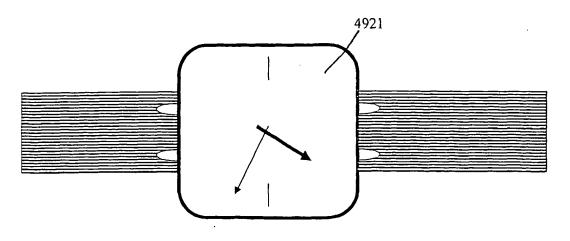
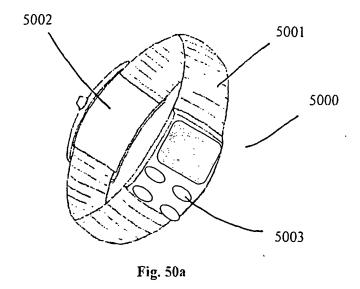
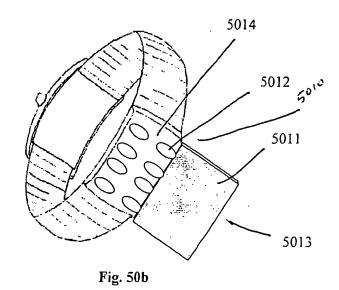


Fig. 49b





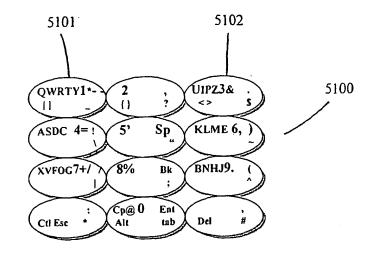


Fig. 51 5112 5110 5111 5115 UIPZ3& QWRTY1* gwrty <> uipz[] KLME 6,) ASDC 4= ! Sp asde klme BNHJ9. 5113 -XVFOG7+/ 8% Bk - 5114 Cp@ 0 Ent Ctl Esc

Fig. 51a

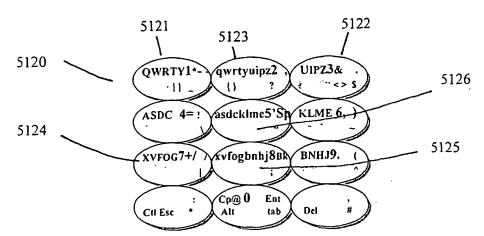


Fig. 51b

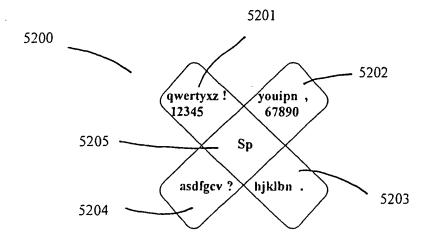
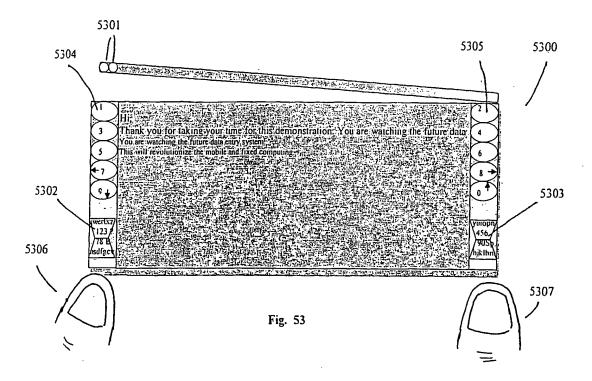


Fig. 52



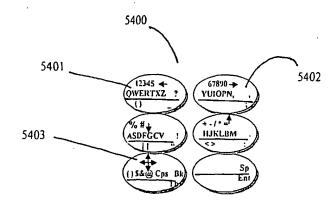
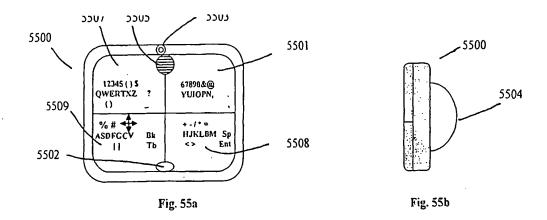


Fig. 54



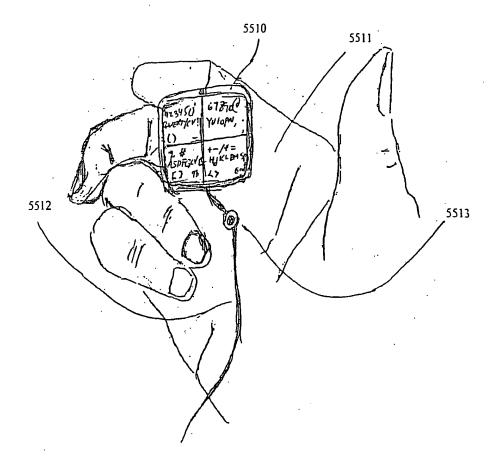


Fig. 55c

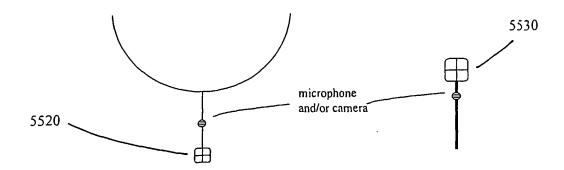


Fig. 55d

Fig. 55e

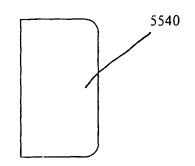


Fig. 55f

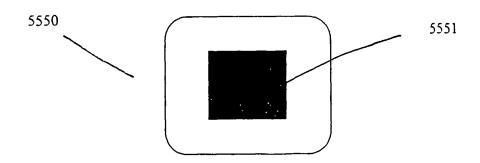
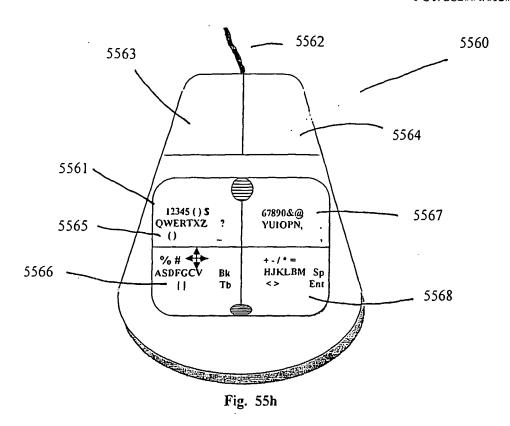
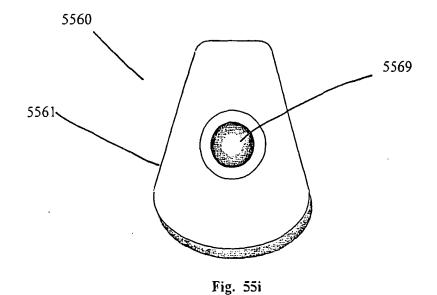


Fig. 55g





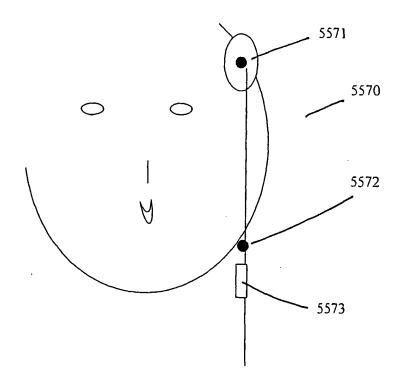


Fig. 55j

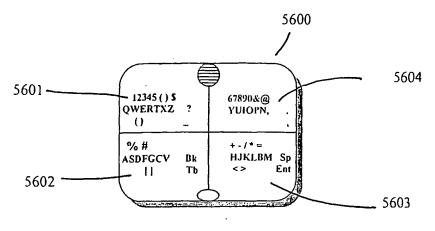


Fig. 56

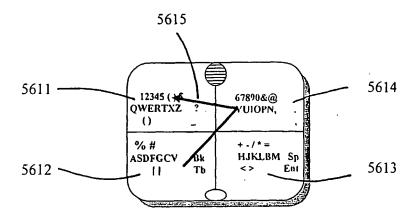


Fig. 56a

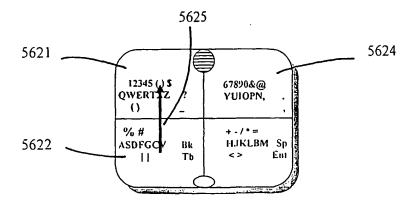
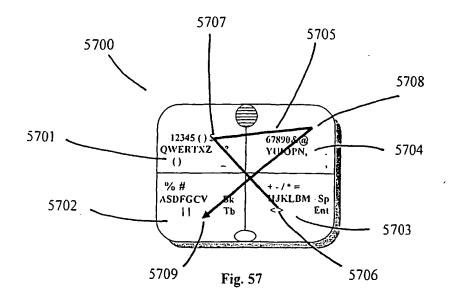


Fig. 56b



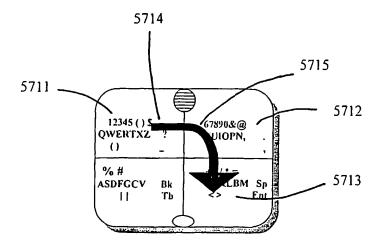


Fig. 57a

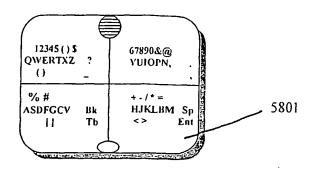


Fig. 58a

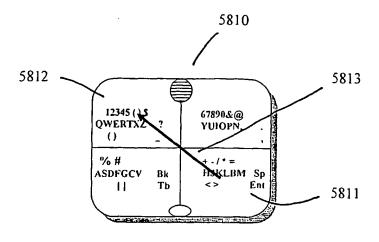


Fig. 58b

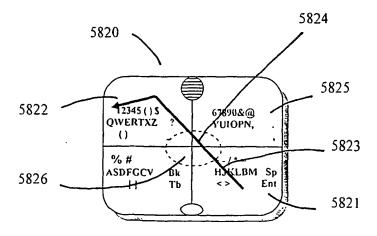


Fig. 58c

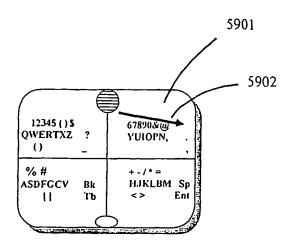
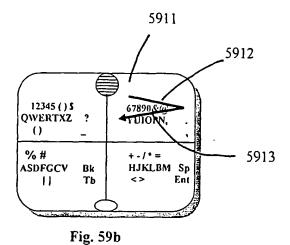


Fig. 59a



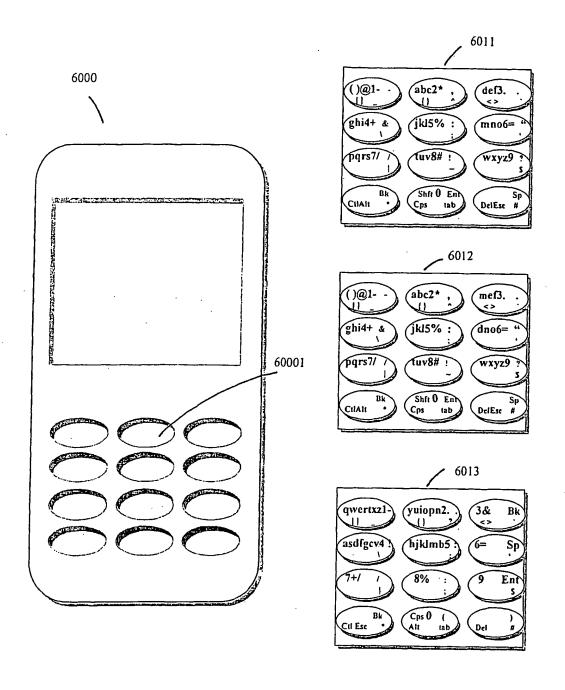


Fig. 60

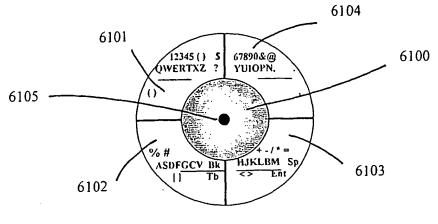


Fig. 61a

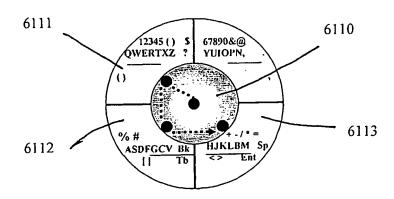


Fig. 61b

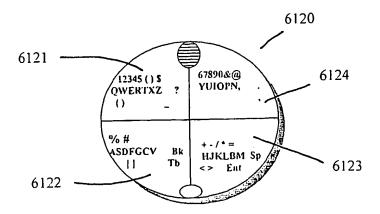


Fig. 61c

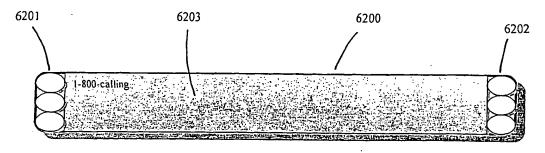


Fig. 62a

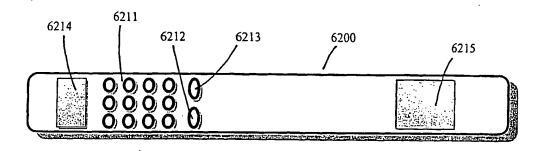


Fig. 62b

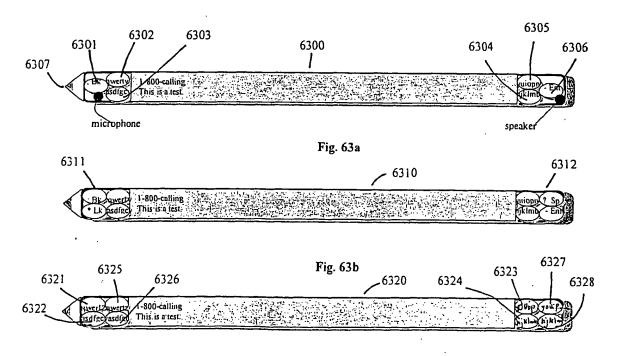


Fig. 63c

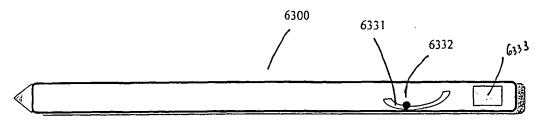


Fig. 63d

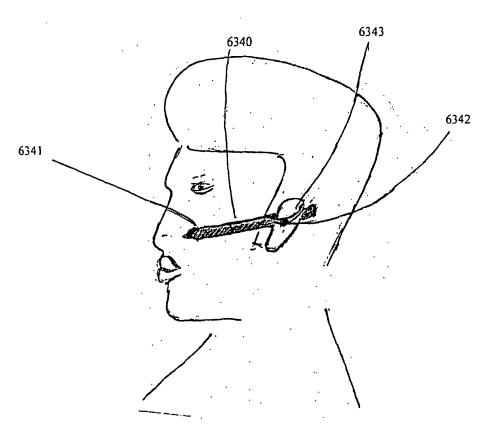


Fig. 63e

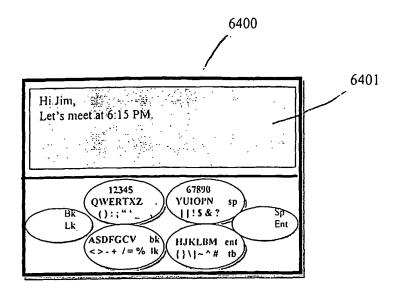


Fig. 64a

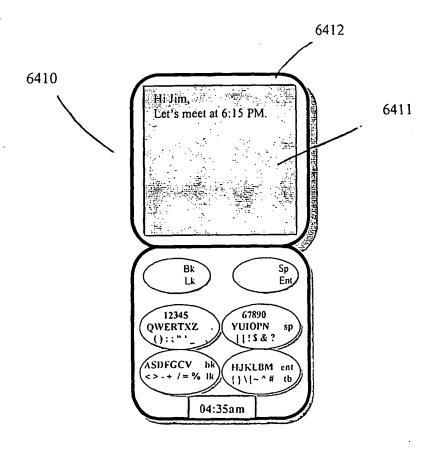


Fig. 64b

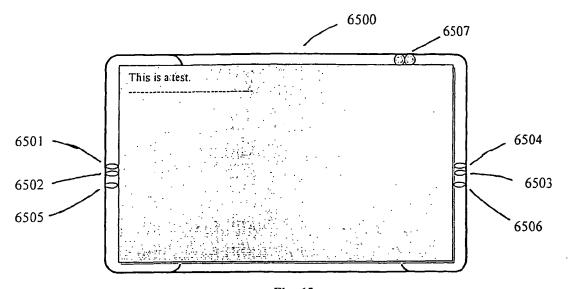


Fig. 65a

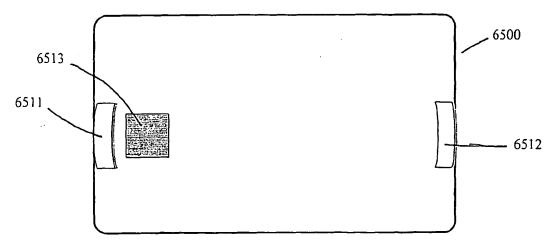


Fig. 65b

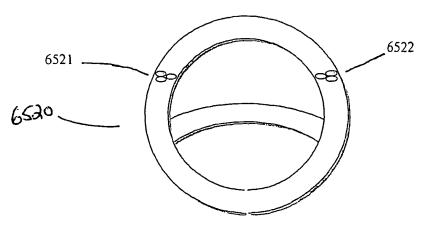


Fig. 65c

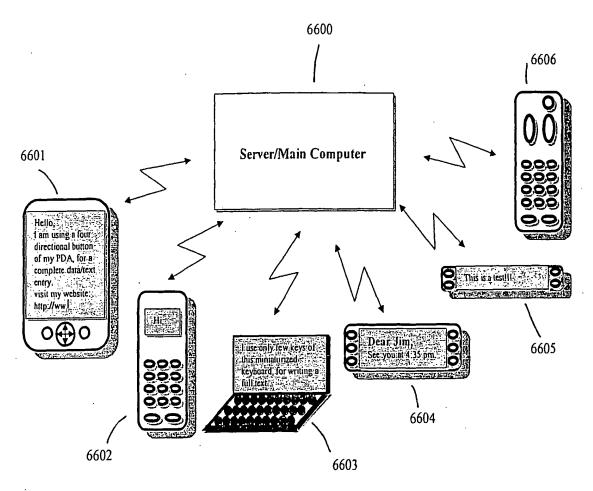


Fig. 66

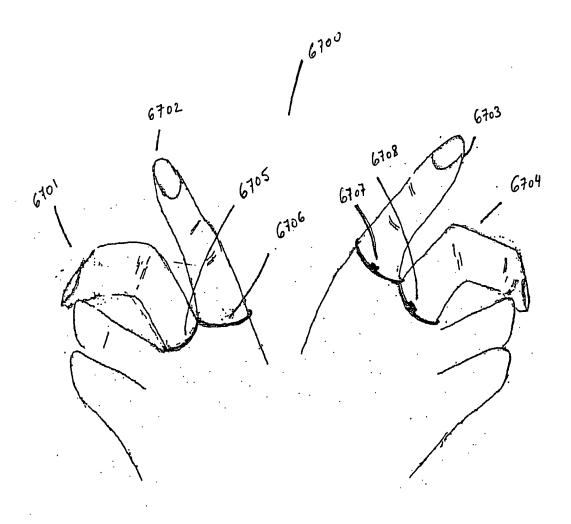
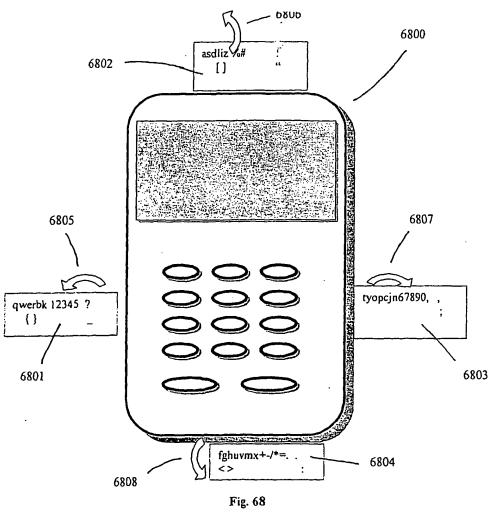


Fig. 67



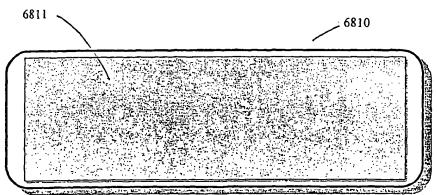
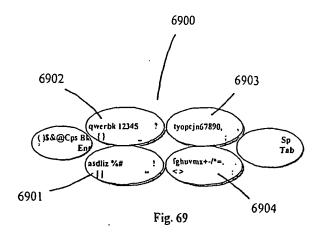
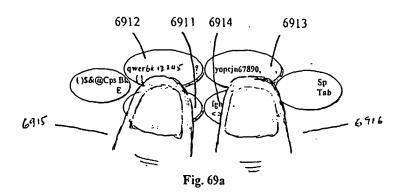
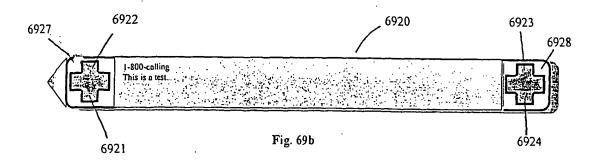


Fig. 68a







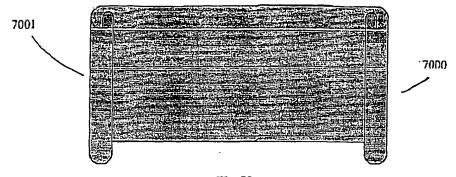


Fig. 70a

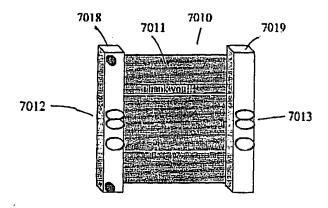


Fig. 70b

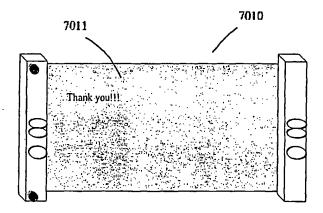


Fig. 70c

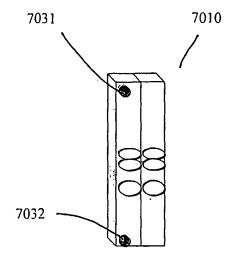


Fig. 70d

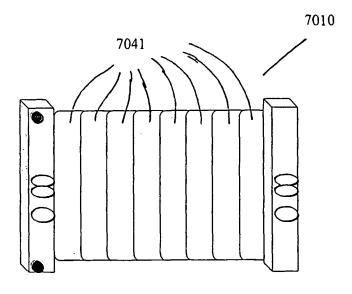


Fig. 70e

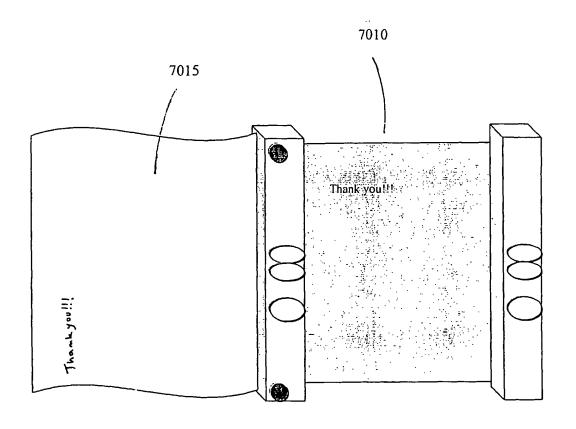


Fig. 70f

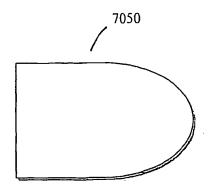


Fig. 70g

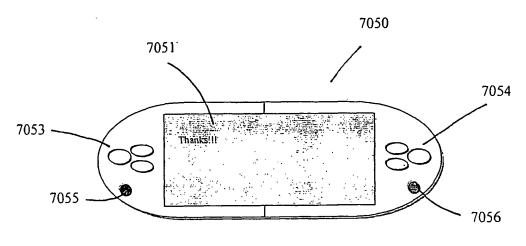
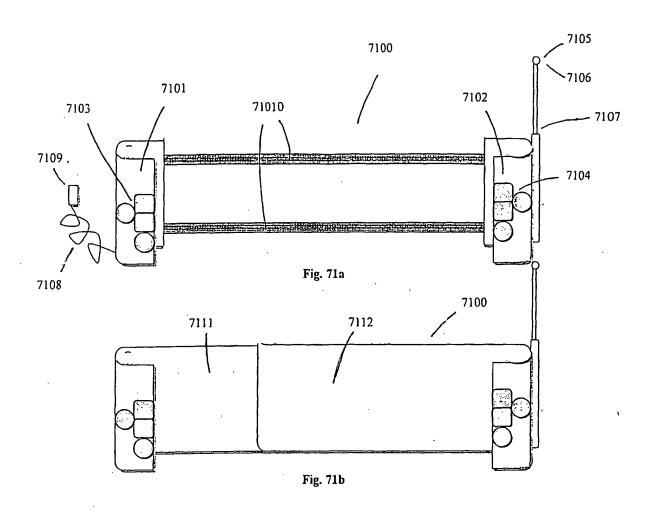
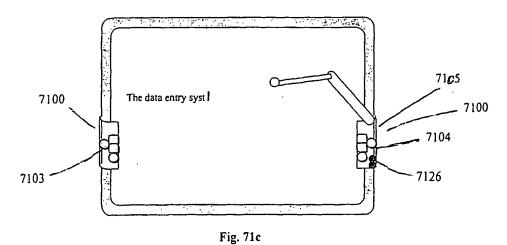


Fig. 70h





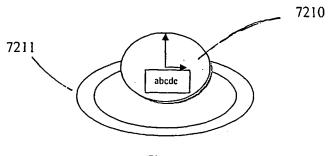


Fig. 72a

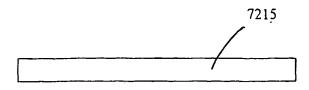


Fig. 72b

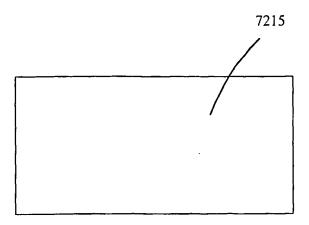


Fig. 72c

INTERNATIONAL SEARCH REPORT

International application No
PCT/US04/12082

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A. CLAS	SIFICATION OF SUBJECT MATTER					
IPC(7) : G09G 05/00						
US CL	US CL : 345/168, 169, 172					
According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELD	OS SEARCHED					
Minimum doc	cumentation searched (classification system followed by	v classification symb	vols)			
	15/168, 169, 172	, viassitivation synt	~isj			
						
Documentatio	n searched other than minimum documentation to the	extent that such docu	aments are included i	n the fields searched		
			 			
	ta base consulted during the international search (name	of data base and, w	here practicable, sea	rch terms used)		
Please See Co	ontinuation Sheet					
C. DOCI	JMENTS CONSIDERED TO BE RELEVANT	·				
Category *	Citation of document, with indication, where ap	propriate of the rel	evant nassages	Relevant to claim No.		
X	US 6,295,052 B1 (KATO et al) 25 September 2001 (1		
^	column 20, line 67 and column 22, line 66 - column 2		11 17, IIIIC 20 -	1		
A	US 4,531,119 (NAKAYAMA et al) 23 July 1985 (23	•		1		
				1		
A	US 5,790,103 (WILLNER) 04 August 1998 (04.08.1	998).		1		
'	Control (112 Control of Stagner 1990 (04.00.1			1		
A	US 5,867,149 (JAEGER) 02 February 1999 (02.02.1	999).		1		
		,-		•		
A	US 6,326,952 B1 (AMRO et al) 04 December 2001	(04.12.2001).		1		
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Α	US 6,445,381 B1 (CHOU) 03 September 2002 (03.0	9.2002).		1		
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Further	documents are listed in the continuation of Box C.	See pater	nt family annex.			
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l s	pecial categories of cited documents:			ternational filing date or priority ication but cited to understand the		
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"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed				t family		
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INTERNATIONAL SEARCH REPORT	PCT/US04/12082					
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Continuation of B. FIELDS SEARCHED Item 3:						
EAST: search terms: keypad, keyboard, key, button, pushbutton, symbol, alphabet, alphabetic, numeral, numeric, command, punctuation, finger, digit, recognition, sense, detect, multi-function key						
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